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25% PHOSPHORIC ACID

BOWL – CLEANER

BOWL/TILE, PORCELAIN CLEANER CLEANS - DEODORIZES

DESCRIPTION:

An acid cleaner that combines detergents and wetting agents with a phosphoric acid base. Removes rust, lime and organic deposits, and offensive odors from toilet bowls and urinals. When diluted with 3 parts water 25% Phosphoric Acid Bowl- Cleaner can be used for the occasional cleaning of those same stubborn stains from wash basins, bath tubs, shower stall, drinking fountains, tile, porcelain, enamel and stainless steel.

DIRECTIONS FOR USE:

Cleaning toilet bowls and urinals - First remove water from bowl by forcing over trap with applicator. Then remove excess water from applicator by pressing it against the side of the bowl. Pour 1 ounce of 25% Phosphoric Acid Bowl-Cleaner on the applicator. Clean entire unit, especially under rim at water outlets. Flush toilet and thoroughly rinse all cleaned surfaces, then rinse applicator.

Cleaning wash basins, bath tubs, shower stalls, drinking fountains, tile, porcelain enamel and stainless steel - Dilute 1 part 25% Phosphoric Acid Bowl-Cleaner with 3 parts water in a plastic container. Clean surface with a brush or sponge, then rinse immediately with plenty of water. Do not allow solution to remain on surfaces without immediate thorough rinsing with water. Frequent cleaning may damage some surfaces.

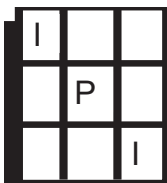
25% Phosphoric Acid Bowl-Cleaner is a complete product. Do not add other chemicals. Use only as directed.

CAUTION KEEP OUT OF THE REACH OF CHILDREN

Only for sale to, use and storage by Service Personnel.

For best product efficiency keep stock rotated.
Shelf life is 1 year.

Judgements as to the suitability of the information provided herein for the purchaser's purposes are necessarily the purchaser's responsibility. Therefore, although reasonable care has been taken in the preparation of such information, Iowa Prison Industries extends no warranties, makes no representations and assumes no responsibility as to the accuracy or suitability of such information for application to the purchaser's intended purposes or for the consequences of its use.



**IOWA
PRISON
INDUSTRIES**

MATERIAL SAFETY DATA SHEET

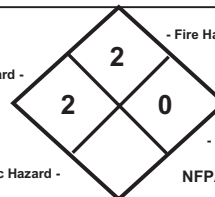
(Prepared According to 29 CFR 1910.1200)

Date Prepared: 3/1/97
Supersedes Date: 2/6/95

HAZARD RATING

4-EXTREME
3-HIGH
2-MODERATE
1-SLIGHT
0-INSIGNIFICANT

Health Hazard -



- Fire Hazard

- Reactivity

NFPA CODE 704

SECTION 1 - PRODUCT IDENTIFICATION

Manufacturer Name	IOWA PRISON INDUSTRIES	Emergency Telephone No.	(515) 967-7651
Address	300 Elm St. SW, Mitchellville, Iowa 50169		
Trade Name-	25% PHOSPHORIC ACID BOWL-CLEANER	Product Type-	
Chemical Family-		Formula-	Acid Bowl/Tile/Porcelain/Cleaner

SECTION 2 - HAZARDOUS INGREDIENTS

CHEMICAL NAME / COMMON NAME	CAS. NO	PERCENT (optional)	OSHA STANDARDS	ACGHI GUIDELINES
Phosphoric Acid	7664-38-2	25	PEL-1mg/m³ STEL-3mg/m³	TLV-1mg/m³ STEL-3mg/m³

SECTION 3 - PHYSICAL DATA

Boiling Point (°F) 275	Specific Gravity (H2O = 1.0) 1.15	pH- >1
Vapor Pressure- (mmHg) 6	Vapor Density (Air = 1) NA	
Solubility in Water- <input checked="" type="checkbox"/> Complete <input type="checkbox"/> Insoluble <input type="checkbox"/> Emulsifiable (or dispersible) <input type="checkbox"/> Slight (or partial)		
Evaporation Rate- (vsH2O) NE <input type="checkbox"/> Faster <input type="checkbox"/> Slower <input type="checkbox"/> About the Same		
Appearance and Odor- Opaque pink liquid with a citrus odor		

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point- (T.C.C.)	<input checked="" type="checkbox"/> None to Boiling	Flammable Limits-	Upper-	Lower-
Extinguishing Media-	Suitable for surrounding area. Water, CO2, dry chemical foam.			
Special Fire Fighting Procedures-	NA			
Unusual Fire and Explosion Hazards-	NA	Physical Hazards-	Corrosive	

SECTION 5 - REACTIVE DATA

Stability-	Stable	Incompatibility-	Ammonia, bleach and other alkaline materials; aluminum & zinc.
Hazardous Decomposition Products-	Forced ignition of dried residues may produce oxides of phosphorous.		

SECTION 6 - HEALTH HAZARDS

Primary Routes of Exposure-	<input checked="" type="checkbox"/> Eye	<input checked="" type="checkbox"/> Skin	<input type="checkbox"/> Oral	<input checked="" type="checkbox"/> Inhalation	<input type="checkbox"/> Other-
Signs and Symptoms of Over-Exposure (Acute)-	Chemical burns to eyes and skin. Mist may be irritating to nose and throat, hazardous if swallowed.				
Signs and Symptoms of Over-Exposure (Chronic)-	None known				
Medical Conditions Aggravated by Over-Exposure-	None known				
Carcinogen or Suspect Carcinogen Ingredients-	<input type="checkbox"/> NTP	<input type="checkbox"/> IARC	<input type="checkbox"/> OSHA	<input checked="" type="checkbox"/> NONE	

SECTION 7 - EMERGENCY AND FIRST AID PROCEDURES

Eyes:	Flush eyes with plenty of water for 15 minutes; cakk physician if irritation persists.
Skin:	Wash with large amounts of soap and water then cover with moist magnesia or baking soda. Contact physician.
Ingestion:	Drink a teaspoon or more of magnisia, chalk, or raw egg whites, contact a physician immediately.
Inhalation:	Remove to fresh air. If breathing stops, administer artificial respiration; contact a physician.

SECTION 8 - SPECIAL PROTECTION INFORMATION

Respiratory Protection-	Not normally required		
Ventilation Requirements-	<input checked="" type="checkbox"/> Local Exhaust	<input type="checkbox"/> Mechanical	<input type="checkbox"/> Other-
Protective Gloves-	Rubber recommended	Eye Protection-	Safety goggles recommended
Other Protective Clothing-	Use regular toilet bowl applicator when cleaning urinal and toilet bowls.		

SECTION 9 - SPILL OR LEAK PROCEDURES

Steps to be Taken if Released or Spilled-	Mop up, then rinse mop before storing
Waste Disposal Methods-	Neutralize by passage through limestone bed. In accordance with local, state, and federal regulations.

SECTION 10 - STORAGE AND HANDLING INFORMATION

Precautions to be Taken in Handling and Storage-	If accidentally frozen, thaw and agitate before use. Do not mix with other chemicals or products.
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